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PN - JP2001342962 A 20011214
PD - 2001-12-14
PR - JP20000162848 20000531
OPD - 2000-05-31
TI - GAS FILLING DEVICE
IN - IWAI HITOSHI;KOMI YOSHINORI
PA - CHIYODA SECURITY SERVICE KAMAHA MOTOR CO LTD
IC - F04B41/00 ; F17C5/06

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TI - Gas filling apparatus for vehicle has compressor drive type ventilation fan provided to air discharge port of compressor chamber to eject air from engine chamber and compressor chamber

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PA - (CHIY-N) CHIYODA SECURITY SERVICE KK
- (YMHA) YAMAHA MOTOR CO LTD

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AB - JP2001342962 NOVELTY - An air inlet (18) is formed in an engine chamber (13) to allow passage of the external air into the engine chamber. The air from the engine chamber is directed to a compressor chamber (14), via the connection hole (19) of a partition wall (15). A compressor drive type ventilation fan (23) is provided in the air discharge port (21) of the compressor chamber to discharge air from the compressor chamber.

- DETAILED DESCRIPTION - A housing (2) is divided by the partition wall into the engine chamber and compressor chamber. The connection hole of the partition wall connects the engine and compressor chambers such that the crankshaft (33) of an engine (3) passes through the connection hole.
- USE - For vehicle.
- ADVANTAGE - Prevents gas leaked from compressor in compressor chamber, from flowing into drive-unit chamber since leaked gas is ejected together with air by ventilation fan to outside of housing.
- DESCRIPTION OF DRAWING(S) - The figure shows the side view of gas filling apparatus.
- Housing 2
- Engine 3
- Engine chamber 13
- Compressor chamber 14
- Partition wall 15
- Air inlet 18
- Connection hole 19

- Air discharge port 21
- Ventilation fan 23
- Crankshaft 33
- (Dwg.1/5)

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IN - KOMI YOSHINORI, WAI HITOSHI

PA - CHIYODA SECURITY SERVICE: KAWA MAHA MOTOR CO LTD

TI - GAS FILLING DEVICE

AB - PROBLEM TO BE SOLVED: To provide a gas filling device capable of preventing gas from flowing to the drive device side even if the gas leaks from a compressor.

- SOLUTION: A partition wall 15 dividing the inside of a housing 2 into an engine room 13 and a compressor room 14 is provided in the housing 2 for storing an engine 3 and a compressor 4 therein. The engine 3 is disposed in the engine room 13, and the compressor 4 is disposed in the compressor room 14. A communication hole 19 communicating the engine room 13 with the compressor room 14 is formed in the partition wall 15. The crankshaft 33 of the engine 3 is inserted into the communication hole 19. An air outlet 21 is formed in the compressor room 14. A main air discharge fan 23 of compressor drive type is provided for discharging the air inside the compressor room 14 from the air outlet 21. An air inlet 18 is formed in the engine room 13.

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